Iowa Department of Natural Resources
Air Quality Construction Permit

Permit Holder

Firm: Muscatine Power and Water

Contact:

Mary Jean Brewster
Mgr. Environmental Affairs

(563) 262-3259

3205 Cedar Street, PO Box 899
Muscatine, IA 52761

Responsible Party:

Mary Jean Brewster
Mgr. Environmental Affairs

Permitted Equipment

Emission Unit(s): Facility Haul Roads (EU9999)

Control Equipment: See Condition 14

Emission Point: EP9999

Equipment Location: 1700 Dick Drake Way
Muscatine, IA 52761

Plant Number: 70-01-011

Permit No.	Project No.	Description	Date	Testing
13-A-160	12-290	Permit Source to add $PM_{2.5}$ limit	07/22/13	No
13-A-160-S1	13-307	Expand road network due to ChemMod® installation	10/30/13	No

Under the Direction of the Director of
the Department of Natural Resources

PERMIT CONDITIONS

The permit holder, owner and operator of the facility shall assure that the installation, operation, and maintenance of this equipment is in compliance with all of the conditions of this permit and all other applicable requirements. This permit and its provisions are subject to the appeal rights set forth in Iowa Administrative Code (IAC), rule 561—7.5.

1. Departmental Review

This permit is issued based on information submitted by the applicant. Any misinformation, false statements or misrepresentations by the applicant shall cause this permit to be void. In addition, the applicant may be subject to criminal penalties according to Iowa Code Section 455B.146A.

This permit is issued under the authority of 567 Iowa Administrative Code (IAC) 22.3. The proposed equipment has been evaluated for conformance with Iowa Code Chapter 455B; 567 IAC Chapters 20 – 34; and 40 CFR Parts 51, 52, 60, 61, and 63 and has the potential to comply.

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. The DNR assumes no liability, directly or indirectly, for any loss due to damage to persons or property caused by, resulting from, or arising out of the design, installation, maintenance or operation of the proposed equipment.

2. Transferability

As limited by 567 IAC 22.3(3)"f", this permit is not transferable from one location to another or from one piece of equipment to another, unless the equipment is portable. When portable equipment for which a permit has been issued is to be transferred from one location to another, the DNR shall be notified in writing at least fourteen (14) days prior to transferring to the new location unless the equipment will be located in an area which is classified as nonattainment for the National Ambient Air Quality Standards (NAAQS) or is a maintenance area for the NAAQS in which case notification shall be given thirty (30) days prior to the relocation of equipment[1] (See Permit Condition 8.A.6). The owner will be notified at least ten (10) days prior to the scheduled relocation if the relocation will cause a violation of the (NAAQS). In such case, a supplements permit shall be required prior to the initiation of construction of additional control equipment or equipments modifications needed to meet the standards.

The permit is for the construction and operation of specific emission unit(s), control equipment, and emission point as described in this permit and in the application for this permit. Any owner or operator of the specified emission unit(s), control equipment, or emission point, including any person who becomes an owner or operator subsequent to the date on which this permit is issued, is responsible for compliance with the provisions of this permit. No person shall construct, install, reconstruct or alter this emissions unit, control equipment or emission point without the required revisions to this permit.

[1] A list of nonattainment areas and maintenance areas for the NAAQS can be obtained from the Department.

3. Construction

It is the owner's responsibility to ensure that construction conforms to the final plans and specifications as submitted, and that adequate operation and maintenance is provided to ensure that no condition of air pollution is created.

This permit shall become void if any one of the following conditions occur:

(1) the construction or modification of the proposed project, as it affects the emission point(s) permitted herein, is not initiated within eighteen (18) months after the permit issuance date; or
(2) the construction or modification of the proposed project, as it affects the emission point(s) permitted herein, is not completed within thirty-six (36) months after the permit issuance date; or
(3) the construction or modification of the proposed project, as it affects the emission point(s) permitted herein, is not completed within a time period specified elsewhere in this permit.

3. Construction (Continued)

3.a. Original Permits

The owner or operator shall obtain a new permit if any changes are made to the final plans and specifications submitted for the proposed project.

3.b. Modified or Supplemental Permits

This permit supersedes any and all previous permits issued for the emission point(s) or emission unit(s) permitted herein.

However, the permittee may continue to act under the provisions of the previous permit for the emission point(s) or emission unit(s) until one of the following conditions occurs:

(1) The proposed project authorized by this permit is completed as it affects the emission point(s) permitted herein; or
(2) The permit becomes void.

The owner or operator shall obtain a new permit if:

(1) Any changes are made to the final plans and specifications submitted for the proposed project; or
(2) This permit becomes void.

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4. Credible Evidence

As stated in 567 IAC 21.5 and also in 40 CFR Part 60.11(g), where applicable, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions specified in this permit or any provisions of 567 IAC Chapters 20 through 34.

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5. Owner Responsibility

Issuance of this permit shall not relieve the owner or operator of the responsibility to comply fully with applicable provisions of the State Implementation Plan (SIP), and any other requirements of local, state, and federal law.

The owner or operator of any emission unit or control equipment shall maintain and operate the equipment and control equipment at all times in a manner consistent with good practice for minimizing emissions, as required by paragraph 567 IAC 24.2(1) *"Maintenance and Repair"*.

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6. Excess Emissions

Excess emissions during a period of startup, shutdown, or cleaning of control equipment are not a violation of the emission standard if it is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions except when another regulation applicable to the unit or process provides otherwise. Cleaning of control equipment, which does not require the shutdown of process equipment, shall be limited to one six-minute period per one-hour period. An incident of excess emissions other than the above is a violation and may be subject to criminal penalties according to Iowa Code 455B.146A. If excess emissions are occurring, either the control equipment causing the excess shall be repaired in an expeditious manner, or the process generating the emissions shall be shutdown within a reasonable period of time, as specified in 567 IAC 24.1.

An incident of excess emissions shall be orally reported to the appropriate DNR field office within eight (8) hours of, or at the start of, the first working day following the onset of the incident (See section 8.B.1). A written report of an incident of excess emissions shall be submitted as a follow-up to all required oral reports within seven (7) days of the onset of the upset condition.

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7. Disposal of Contaminants

The disposal of materials collected by the control equipment shall meet all applicable rules.

8. Notification, Reporting, and Recordkeeping

A. The owner shall furnish the DNR the following written notifications:
   1. The date construction, installation, or alteration is initiated postmarked within thirty (30) days following initiation of construction, installation, or alteration;
   2. The actual date of startup, postmarked within fifteen (15) days following the start of operation;
   3. The date of each compliance test required by Permit Condition 12, at least thirty (30) days before the anticipated compliance test date;
   4. The date of each pretest meeting, at least fifteen (15) days before the proposed meeting date. The owner shall request a proposed test plan protocol questionnaire at least sixty (60) days prior to each compliance test date. The completed questionnaire shall be received by the DNR at least fifteen (15) days before the pretest meeting date;
   5. Transfer of equipment ownership, within 30 days of the occurrence;
   6. Portable equipment relocation:
      a. at least thirty (30)days before equipment relocation if the equipment will be located in a nonattainment area for the National Ambient Air Quality Standards (NAAQS) or a maintenance area for the NAAQS;
      b. at least fourteen (14) days before equipment relocation.

B. The owner shall furnish the DNR with the following reports:
   1. Excess emissions reports, in accordance with 567 IAC 24.1;
   2. A written compliance demonstration report for each compliance testing event, whether successful or not, postmarked not later than six (6) weeks after the completion of the test period unless other regulations provide for other notification requirements. In that case, the more stringent reporting requirement shall be met;
   3. Operation of this emission unit(s) or control equipment outside of those limits specified in Permit Conditions 10 and 14 and according to the schedule set forth in 567 IAC 24.1.

C. The owner shall send correspondence regarding this permit to the following address:

Construction Permit Supervisor
Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite 1
Windsor Heights, IA 50324
Telephone: (515) 725-9549
Fax: (515) 725-9501

D. The owner shall send correspondence concerning stack testing to:

Stack Testing Coordinator
Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite 1
Windsor Heights, IA 50324
Telephone: (515) 725-9545
Fax: (515) 725-9502

E. The owner shall send reports and notifications to:

Compliance Unit Supervisor Air Quality Bureau Iowa Department of Natural Resources 7900 Hickman Road, Suite 1 Windsor Heights, IA 50324 Telephone: (515) 725-9550 Fax: (515) 725-9502	DNR Field Office 6 1023 West Madison Washington, IA 52353 Telephone: (319) 653-2135 Fax: (319) 653-2856

8. Notification, Reporting, and Recordkeeping (Continued)

F. All data, records, reports, documentation, construction plans, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives, for a minimum of two (2) years from the date of recording.

9. Permit Violations

Knowingly committing a violation of this permit may carry a criminal penalty of up to $10,000 per day fine and 2 years in jail according to Iowa Code Section 455B.146A.

10. Emission Limits

Pollutant	lb/hr[1]	tons/yr[2]	Additional Limits	Reference (567 IAC)
Particulate Matter (PM)	NA	NA	NA	NA
PM_{10}	NA	NA	NA	NA
$PM_{2.5}$	See note 3	NA	NA	NAAQS
Opacity	NA	NA	See note 4	23.3(2)"c"(1)
Sulfur Dioxide (SO_2)	NA	NA	NA	NA
Nitrogen Oxides (NO_X)	NA	NA	NA	NA
Volatile Organic Compounds	NA	NA	NA	NA
Carbon Monoxide (CO)	NA	NA	NA	NA
Lead (Pb)	NA	NA	NA	NA
(Single HAP)	NA	NA	NA	NA
(Total HAP)	NA	NA	NA	NA

[1] Standard is expressed as the average of three (3) runs.
[2] Standard is a 12-month rolling total.
[3] The limits for $PM_{2.5}$ emissions are established to address the "Finding of Substantial Inadequacy of Implementation Plan; Call for Iowa SIP Revision" for $PM_{2.5}$ published in the Federal Register (76 FR 41424) on July 14, 2011 and effective on August 15, 2011. For this emissions unit the limits are expressed in the form of a work practice instead of an emission limit. See Section 14 of this permit for the work practice requirements.
[4] The owner/operator shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dust beyond the lot line of the property.

11. Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Parameter	Value
Stack Height, (ft, from the ground)	*
Discharge Style	*
Stack Opening, (inches, dia.)	*
Exhaust Temperature (°F)	*
Exhaust Flowrate (scfm)	*

* There is no stack on this emissions unit.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

12. Compliance Demonstration(s) and Performance Testing

Pollutant	Initial	Subsequent	Methodology	Frequency
PM (federal)	No	No	NA	NA
PM (state)	No	No	NA	NA
PM_{10}	No	No	NA	NA
$PM_{2.5}$	No	No	NA	NA
Opacity	No	No	NA	NA
SO_2	No	No	NA	NA
NO_X	No	No	NA	NA
VOC	No	No	NA	NA
CO	No	No	NA	NA
Pb	No	No	NA	NA
HAP	No	No	NA	NA

If an initial compliance demonstration specified above is testing, the owner shall verify compliance with the emission limitations contained in Permit Condition 10 within ninety (90) days after issuance of this permit.

If subsequent testing is specified above, the owner shall verify compliance with the emission limitations contained in Permit Condition 10 according to the frequency noted above.

If testing is required, the owner shall use the test method and run time listed in the table below unless another testing methodology is approved by the Department prior to testing.

Pollutant	Test Run Time	Test Method
PM (federal)	1 hour	40 CFR 60, Appendix A, Method 5
PM (state)	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M, Method 202
PM_{10}	3 hours	40 CFR 51, Appendix M, 201A with 202
$PM_{2.5}$	5 hours	40 CFR 51, Appendix M, 201A with 202
Opacity	1 hour	40 CFR 60, Appendix A, Method 9
SO_2	1 hour	40 CFR 60, Appendix A, Method 6C
NO_X	1 hour	40 CFR 60, Appendix A, Method 7E
VOC	1 hour	40 CFR 60, Appendix A, Method 25A
CO	1 hour	40 CFR 60, Appendix A, Method 10
Pb	1 hour	40 CFR 60, Appendix A, Method 12
Other		

The unit(s) being sampled should be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

Each emissions compliance test must be approved by the Department. Unless otherwise specified by the Department, each test shall consist of three (3) separate runs. The arithmetic mean of three (3) acceptable test runs shall apply for compliance, unless otherwise indicated by the Department.

A pretest meeting shall be held at a mutually agreeable site no less than fifteen (15) days prior to the date of each test. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. The owner shall be responsible for the installation and maintenance of test ports. The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

13. NSPS and NESHAP Applicability

This emissions unit is not subject to a New Source Performance Standard as there are no subparts for this source category.

This emission unit is not subject to a National Emission Standards for Hazardous Air Pollutants (NESHAP) as there are no subparts for this source category.

14. Operating Limits

A. The following road segments are covered by this permit:

Road #	Segment ID	Length & type of surface	Used by trucks hauling:	Physical Description
1	A – B	412 feet, Paved	Gypsum Limestone Ash/slag ChemMod additives (Full & empty)	**Road:** Unit 8 access road **From:** Intersection of Unit 8 access road with Unit 9 access road (near Guard House) **To:** Intersection Unit 8 access road with west Ash/Slag Pile road (near truck scale)
2	B – C straight	656 feet, Paved	Gypsum Limestone ChemMod additives (Full & empty) Ash/slag (empty)	**Road:** Unit 8 access road **From:** Intersection of Unit 8 access road with west Ash/Slag Pile road (near truck scale) **To:** Intersection Unit 8 access road with east Ash/Slag Pile road (access to Unit 8A substation)
3	B – C curved	1030 feet, Paved	Ash/slag (Full)	**Road:** Ash/Slag Pile road **From:** Intersection of Unit 8 access road with west Ash/Slag Pile road (near truck scale) **To:** Intersection Unit 8 access road with east Ash/Slag Pile road (access to Unit 8A substation)
4	C – D	566 feet, Paved	Gypsum Limestone Ash/slag ChemMod additives (Full & empty)	**Road:** Unit 8 access road **From:** Intersection of Unit 8 access road with east Ash/Slag Pile road (access to Unit 8A substation) **To:** Intersection Unit 8 access road with Gypsum Haul road (near fuel dispensing pumps)
5	D – I	194 feet, Paved	Gypsum Limestone ChemMod additives (Full & empty)	**Road:** Gypsum Haul Road **From:** Intersection of Unit 8 access road with Gypsum Haul road (near fuel dispensing pumps) **To:** Intersection of Gypsum Haul Road with A-Conveyor access road (near A-Conveyor track hopper) **Exclusion:** EU919A, "Synthetic Gypsum Road-Paved" at EP919 is covered in Construction Permit 12-A-303
6	I – F	290 feet, Paved	Gypsum ChemMod additives (Full & empty)	**Road:** Gypsum Haul Road **From:** Intersection of Gypsum Haul road with A-Conveyor access road (near A-Conveyor track hopper) **To:** Unit 9 Fly Ash silo **Exclusion:** EU919A, "Synthetic Gypsum Road-Paved" at EP919 is covered in Construction Permit 12-A-303
7	I – E	253 feet, Paved	Limestone (Full & empty)	**Road:** A-Conveyor access road **From:** Intersection of Gypsum Haul road with A-Conveyor access road (near A-Conveyor track hopper) **To:** Intersection A-Conveyor access road with Limestone pile access road (near Transfer House) **Exclusion:** None Notes: EU45B "Limestone Haul Roads – Unpaved" and EU45B "Limestone Haul Roads- Paved" are now included in this permit
8	E – H	261 feet, Unpaved	Limestone (Full & empty)	**Road:** Limestone pile access road **From:** Intersection of A-Conveyor access road with Limestone pile access road (near Transfer House) **To:** Limestone pile (limestone load hopper)
9	A – G	1627 feet, Paved	Flyash (Full & empty)	**Road:** Unit 9 access road **From:** Intersection of Unit 8 access road with Unit 9 access road (near Guard House) **To:** Intersection of Unit 9 access road with Material handling access road (near Material Handling Maintenance Building)
10	G – J	597 feet, Unpaved	Flyash (Full & empty)	**Road:** Material handling access road **From:** Intersection of Unit 9 access road with Material handling access road (near Material Handling Maintenance Building) **To:** Intersection of Material Handling Maintenance Building access road with Bag Fly Ash Haul road (near Unit 9 substation access)

11	J – J loop	1312 ft, Unpaved	Flyash (Full & empty)	**Road:** Bag Fly Ash Haul road **From:** Intersection of Material Handling Maintenance Building access road with Bag Fly Ash Haul road (near Unit 9 substation access) **To:** Bag Fly Ash storage area **Exclusion:** This does not include EU926A4 "Vehicle Traffic from Fly Ash Pile to Hopper" at EP926A4, covered in construction permit 04-A-619-S1
12	F – K	605 ft, Paved	ChemMod additives (Full & empty)	**Road:** Gypsum Haul Road **From:** Unit 9 Fly Ash Silo **To:** Intersection Gypsum Haul road with LSCS-1 access road
13	K – L	155 ft, Paved	ChemMod additives (Full & empty)	**Road:** LSCS-1 access road **From:** Intersection Gypsum Haul road with LSCS-1 access road **To:** ChemMod® 150-Ton powder additive bulk storage silo (near LSCS-1)

B. Operating limits for this emissions unit shall be:

Segment ID	Maximum Number of Truck per Year (Roundtrip except where noted)						Control measures Required:	Operating limit Road use limited between:
	Gypsum	Limestone	Ash/slag	Flyash	ChemMod®			
					Liquid	Powder		
A – B	3287	2900	7588	0	13	234	Water flushing	7:00 AM to 7:00 PM gypsum and ash/slag trucks 6:00 AM to 4:00 PM limestone trucks No restriction for ChemMod® trucks
B–C straight	3287	2900	7588[1]	0	13	234	Water flushing	7:00 AM to 7:00 PM gypsum and ash/slag trucks 6:00 AM to 4:00 PM limestone trucks No restriction for ChemMod® trucks
B–C curved	0	0	7588[1]	0	0	0	Paving and water flushing	7:00 AM to 7:00 PM ash/slag trucks
C – D	3287	2900	7588	0	13	234	Water flushing	7:00 AM to 7:00 PM gypsum and ash/slag trucks 6:00 AM to 4:00 PM limestone trucks No restriction for ChemMod® trucks
D – I	3287	2900	0	0	13	234	None	7:00 AM to 7:00 PM gypsum and ash/slag trucks 6:00 AM to 4:00 PM limestone trucks No restriction for ChemMod® trucks
I – F	3287	0	0	0	13	234	None	7:00 AM to 7:00 PM gypsum trucks No restriction for ChemMod® trucks
I – E	0	2900	0	0	0	0	None	6:00 AM to 4:00 PM limestone trucks
E – H	0	2900	0	0	0	0	None	6:00 AM to 4:00 PM limestone trucks
A – G	0	0	0	1606	0	0	None	7:00 AM to 7:00 PM flyash trucks
G – J	0	0	0	1606	0	0	None	7:00 AM to 7:00 PM flyash trucks
J – J loop	0	0	0	1606	0	0	None	7:00 AM to 7:00 PM flyash trucks
F – K	0	0	0	0	13	234	None	No restriction
K – L	0	0	0	0	13	234	None	No restriction

C. Haul road segment identified as "B-C curved" shall be paved. Use of this road by commercial vehicles shall be limited to the hours of 0700 through 1900 hours daily.

D. Fugitive emissions from road segments "A-B", "B-C straight", "B-C curved", and "C-D" shall be controlled to a maximum silt loading content of 6.75 g/m^2. This represents 50% control efficiency. Water flushing shall occur at least once per month, subject to precipitation, environmental factors and roadway use. The water flushing rate shall be a minimum of 0.23 gallons per square yard. Silt loading testing shall be done, before flushing, at least quarterly between April 1st through September 30th to assure that silt loading does not exceed 6.75 g/m^2.

E. The maximum silt loading content of the other paved road segments listed in Condition 14 (B) shall not exceed 13.5 g/m^2. Silt loading testing shall be done on these road segments at least quarterly between April 1st through September 30th to assure that the silt loading does not exceed 13.5 g/m^2.

F. If water flushing cannot be accomplished because the ambient air temperature (as measured at the facility during the daylight operating hours) will be less than 35°F or conditions due to weather, in combination with the application of water, could create hazardous driving conditions, then the water flushing can be

postponed and performed as soon after the scheduled date as the conditions preventing the application have abated. Additionally, water flushing need not occur when a rain gauge located at the site indicates that at least 0.2 inch of precipitation (water equivalent) has occurred within the preceding 24-hour time period.

[1] One way trip for trucks.

15. Operating Condition Monitoring

All records as required by this permit shall be kept on-site for a minimum of two (2) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. The owner or operator shall maintain a daily record on the facility's haul roads. These records shall show the following information:

i. The Segment ID; and

ii. The number of each type of truck that has used the road segment (i.e. gypsum, limestone, ash/slag, flyash, or ChemMod®). With the exception of ash/ slag trucks using road segments B – C (straight) and B – C (curved), this is the number of roundtrips made by each type of truck. For ash/slag trucks using road segments B-C (straight) this is the number of empty trucks using the road. For ash/slag trucks using road segments B-C (curved) this is the number of full trucks using the road.

B. The owner or operator shall maintain the following monthly records on the facility's haul roads:

i. The Segment ID;

ii. The total number of each type of truck that has used the road segment; and

iii. The rolling 12-month total of the number of each type of truck that has used the road segment.

C. The owner or operator shall maintain records on the road segments A-B, B-C (straight), B-C (curved), and C-D. These records shall show the following information:

i. The Segment ID;

ii. The dates of silt loading testing and the results of the test;

iii. The dates of water flushing and the amount of water applied; and

iv. A record of why water flushing could not be conducted on a scheduled day because of ambient air temperature, precipitation, or other environmental or safety factors.

For each silt loading test, the test shall consist of taking samples from each of the four identified road segments. The results of the sampling from road segments A-B, B-C (straight), and C-D can then be averaged together. The results of the sampling from road segment B-C (curved) shall not be averaged with the results from the other road segments.

After 5 years of silt loading tests on road segments A-B, B-C (straight), B-C (curved) and C-D, the owner or operator can request a re-evaluation of the testing frequency.

D. The owner or operator shall maintain records on road segments D-I, I-F, I-E, A-G, F-K, and K-L. These records shall show the following information:

i. The Segment ID; and

ii.The dates of the silt loading testing and the results of the test.

For each silt loading test, the test shall consist of taking samples from each of the six identified road segments. The results of the sampling from road segments D-I, I-F, and I-E can then be averaged together. The results of the sampling from road segments F-K and K-L can also be averaged together. The results of the sampling from road segment A-G shall not be averaged with the results from the other road segments.

After 2 years of silt loading tests on road segments D-I, I-F, I-E, A-G, F-K, K-L the owner or operator can request a re-evaluation of the testing frequency.

E. The owner or operator shall maintain a daily record of when trucks used the following road segments: B – C (curved), I – F, I – E, E – H, A – G, G – J, and J – J loop. This record shall include the following information: date of operation, initial start up time of truck use and final end time of truck use.

16. Continuous Emission Monitoring

Continuous emission monitoring is not required by this permit at this time.

17. Description of Terms and Acronyms

acfm	Actual cubic feet per minute
Applicant	The owner, company official or authorized agent
CFR	Code of Federal Regulations
Department	Iowa Department of Natural Resources
DNR	Iowa Department of Natural Resources
gr/dscf	Grains per dry standard cubic foot
HAP	Hazardous Air Pollutant(s)
IAC	Iowa Administrative Code
MMBtu	One million British thermal units
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NO_X	Nitrogen Oxides
Owner	The owner or authorized representative
Permit	This document including permit conditions and all submitted application materials
PM_{10}	Particulate Matter equal to or less than 10 microns in aerodynamic diameter
scfm	Standard cubic feet per minute
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
VOC	Volatile Organic Compound

END OF PERMIT CONDITIONS

EPA Rulemakings

CFR: 40 C.F.R. 52.820(d)
FRM: 79 FR 71025 (12/1/2014) and 80 FR 18133 (4/3/15)
PRM: 79 FR 46742 (8/11/2014) and 80 FR 18179 (4/3/15)
State Submission: 2/18/14 and 11/3/14
State Final: 2/14/14 ACO; permits are individually dated
APDB File: EPA-R07-OAR-2014-0550 and EPA-R07-OAR-2015-0159; IA-167 and IA-167a
Description: IA-167 EPA-R07-OAR-2014-0550, and IA 167a EPA-R07-OAR-2015-0159.
Description: This action approves Iowa's State Implementation Plan to address the 2011 SIP Call for the 2006 24-hour PM2.5 NAAQS for the Muscatine County, Iowa area. The state's plan addresses the requirements of the SIP Call and includes into the SIP permits for Muscatine Power and Water and Union Tank Car. It also includes an Administrative Consent Order for Grain Processing Corporation. IA 167 published December 1, 2014 approved new permits (29)-(109), codified in 52.820(d), IA 167a updates and revises the previously approved permits for administrative errors and approves the updated versions of the permits that were not available when IA-167 was published.

Difference Between the State and EPA-Approved Regulation:

(29)Grain Processing Corporation, Administrative Consent Order NO.2014-AQ-A1, the last sentence of Paragraph 5, Section III and Section VI are not approved by EPA as part of the SIP.